

19/09/2007,10519807IIa.trn

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSPTASXY1626

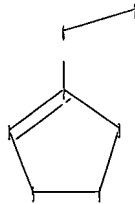
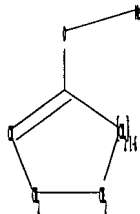
PASSWORD:

***** RECONNECTED TO STN INTERNATIONAL *****
SESSION RESUMED IN FILE 'REGISTRY' AT 07:06:13 ON 19 SEP 2007
FILE 'REGISTRY' ENTERED AT 07:06:13 ON 19 SEP 2007
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	172.55	172.76

=>

Uploading C:\Program Files\Stnexp\Queries\10519807reactIIa.str

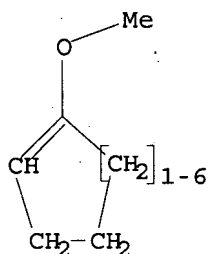


chain nodes :
6 7
ring nodes :
1 2 3 4 5
chain bonds :
2-6 6-7
ring bonds :
1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
2-6
exact bonds :
1-2 1-5 2-3 3-4 4-5 6-7
isolated ring systems :
containing 1 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS

L6 STRUCTURE UPLOADED

=> d l6
L6 HAS NO ANSWERS
L6 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l6

SAMPLE SEARCH INITIATED 07:06:33 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 34245 TO ITERATE

5.8% PROCESSED 2000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 673838 TO 695962
PROJECTED ANSWERS: 0 TO 0

L7 0 SEA SSS SAM L6

=> s l6 full

FULL SEARCH INITIATED 07:06:41 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 686421 TO ITERATE

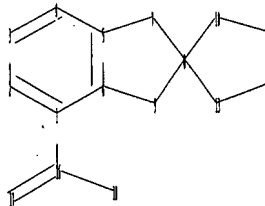
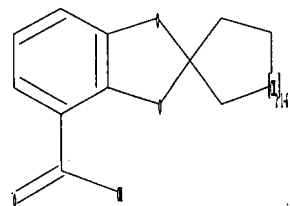
100.0% PROCESSED 686421 ITERATIONS
SEARCH TIME: 00.00.02

21 ANSWERS

L8 21 SEA SSS FUL L6

=>

Uploading C:\Program Files\Stnexp\Queries\10519807react.str



chain nodes :

16 17 18

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13

chain bonds :

1-16 16-17 16-18

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 8-10 8-13 10-11 11-12 12-13

exact/norm bonds :

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5-7 6-9 7-8 8-9 8-10 8-13 10-11 11-12 12-13

exact bonds :

1-16

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 16-17 16-18

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom

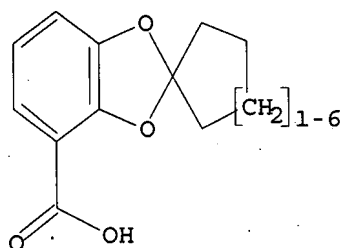
11:Atom 12:Atom 13:Atom 16:CLASS 17:CLASS 18:CLASS

L9 STRUCTURE UPLOADED

=> d 19

L9 HAS NO ANSWERS

L9 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 19

SAMPLE SEARCH INITIATED 07:07:16 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 7 TO ITERATE

100.0% PROCESSED 7 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 7 TO 298

PROJECTED ANSWERS: 0 TO 0

L10 0 SEA SSS SAM L9

=> s 19 full

FULL SEARCH INITIATED 07:07:20 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 74 TO ITERATE

100.0% PROCESSED 74 ITERATIONS

4 ANSWERS

SEARCH TIME: 00.00.01

L11 4 SEA SSS FUL L9

=> file hcaplus

COST IN U.S. DOLLARS

SINCE FILE
ENTRY

TOTAL
SESSION

19/09/2007,10519807IIa.trn

FULL ESTIMATED COST

516.75

516.96

FILE 'HCAPLUS' ENTERED AT 07:07:32 ON 19 SEP 2007

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907 - 19 Sep 2007 VOL 147 ISS 13

FILE LAST UPDATED: 18 Sep 2007 (20070918/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3/P and l8/ract and l11/ract

3 L3/P

345 L8

3024927 RACT/RL

255 L8/RACT

(L8 (L) RACT/RL)

6 L11

3024927 RACT/RL

6 L11/RACT

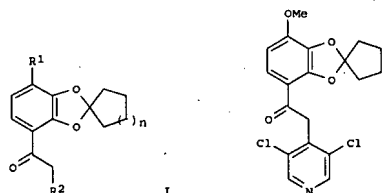
(L11 (L) RACT/RL)

L12 1 L3/P AND L8/RACT AND L11/RACT

=> d ed abs ibib hitstr tot

19/09/2007,10519807IIa.trn

L12 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2007 ACS on STN
ED Entered STN: 18 Jan 2004
GI

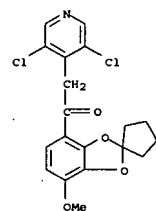


AB This invention pertains to a method for producing 1,3-benzodioxole
derivs.
with general formula of I [wherein R1 = OH or (un)substituted alkoxy; R2
= (un)substituted (hetero)aryl; n = 1-6]. For example, 2,3,4-
trimethoxybenzoic acid was treated with 55% aqueous HI in AcOH to give
2,3-dihydroxy-4-methoxybenzoic acid (73%). The above compound was
reacted
with 1-methoxycyclopentene in cyclopentanone, followed by the addition
of BuI
in DMF in the presence of K2CO3 to provide 7-methoxy-1,3-benzodioxole-2-
spirocyclopentane-4-carboxylic acid Bu ester. The ester obtained was
reacted with 3,5-dichloro-4-picoline in THF in the presence of LiN(TMS)2
to afford II in 54% total yield. This invention provides a simple method
to make 1,3-benzodioxole derivs. in high yields and large scale. I are
useful compds. or intermediates as PDE IV inhibitors (no data).

ACCESSION NUMBER: 2004:41458 HCAPLUS
DOCUMENT NUMBER: 140:111406
TITLE: Process for preparation of 1,3-benzodioxole
derivatives
INVENTOR(S): Atsumi, Toshiyuki, Yanagisawa, Arata, Chujo, Iwao,
Tsumuki, Hiroshi, Mohri, Shinichiro
PATENT ASSIGNER(S): Kyowa Hakko Kogyo Co., Ltd., Japan
SOURCE: PCT Int. Appl., 38 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

L12 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)
(prepn. of benzodioxole derivs.)
RN 185406-34-2 HCAPLUS
CN Ethanone,
2-(3,5-dichloro-4-pyridinyl)-1-(7-methoxyspiro[1,3-benzodioxole-
2,1'-cyclopentan]-4-yl)- (9CI) (CA INDEX NAME)



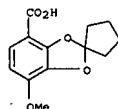
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L12 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)
WO 2004005276 A1 20040115 WO 2003-JP8478 20030703
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS,
LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SJ, TJ, TM, TN, TR,
TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RN: GH, GM, KE, LS, MW, MZ, SD, SI, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
CA 2491464 A1 20040115 CA 2003-2491464 20030703
AU 2003252467 A1 20040123 AU 2003-252467 20030703
EP 1535920 A1 20050601 EP 2003-762875 20030703
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
US 2005245750 A1 20051103 US 2004-519807 20041229
PRIORITY APPLN. INFO.: JP 2002-194273 A 20020703
WO 2003-JP8478 W 20030703

OTHER SOURCE(S): CASREACT 140:111406, MARPAT 140:111406
IT 1072-59-9, 1-Methoxycyclopentene
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of benzodioxole derivs.)
RN 1072-59-9 HCAPLUS
CN Cyclopentene, 1-methoxy- (9CI) (CA INDEX NAME)



IT 185407-83-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
RACT (Reactant or reagent)
(preparation of benzodioxole derivs.)
RN 185407-83-4 HCAPLUS
CN Spiro[1,3-benzodioxole-2,1'-cyclopentane]-4-carboxylic acid, 7-methoxy-
(9CI) (CA INDEX NAME)



IT 185406-34-2P
RL: SPN (Synthetic preparation); PREP (Preparation)